EXPRESS MAIL LABEL: EV323740459US

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ANTISTATIC FILM AND PROCESS FOR ITS MANUFACTURE

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ABSTRACT OF THE DISCLOSURE

An antistatic film with a surface resistivity of $10^{13} \Omega/\Box$, comprising a metal oxide and conductive ultrafine particle mixed layer formed on the surface of a film, and a process for manufacture of the antistatic film which comprises coating the surface of a selfsupporting film, obtained by casting and drying a solution of a heat-resistant resin precursor, with a mixture obtained by uniformly combining a metal compound which converts to a metal oxide upon heating, conductive ultrafine particles and a solvent, and then heating it to dryness, removing the solvent and cyclizing the heatresistant resin precursor. The film exhibits improved antistatic retention with no reduction in its original mechanical properties and formed without the use of special equipment such as a sputtering apparatus, as well as a process for its manufacture.